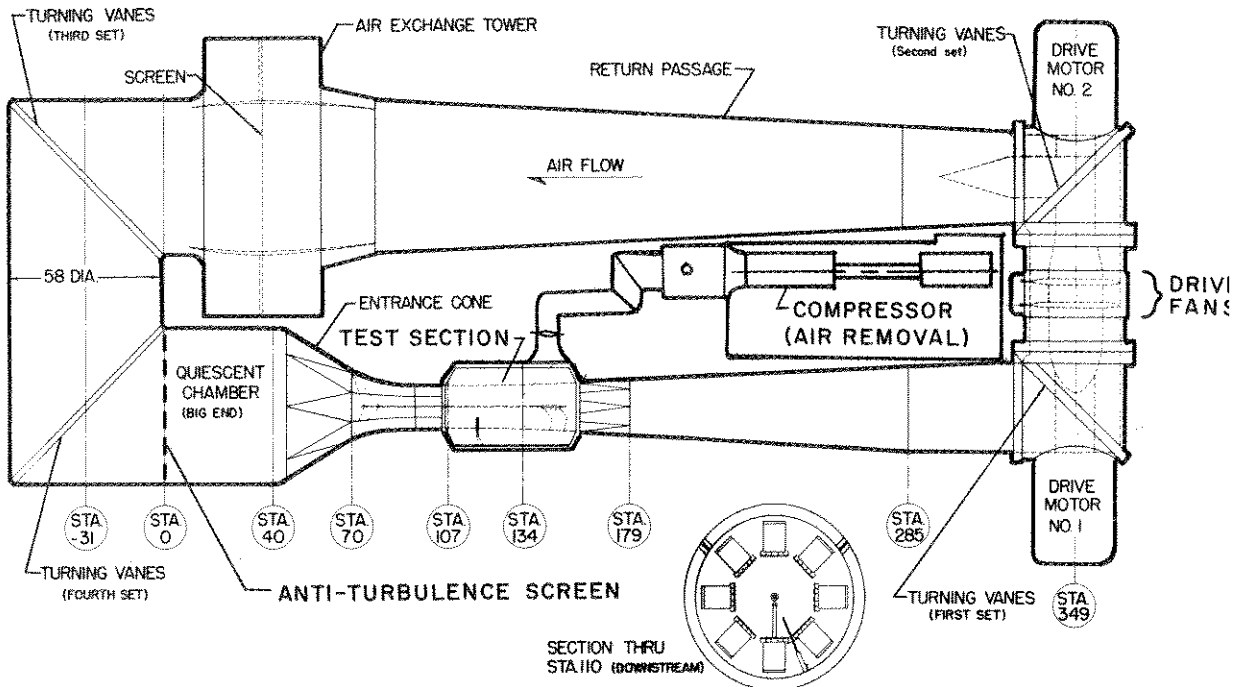


TECHNICAL FACILITIES RESUME

DATE OF RESUME: July 1, 1966

FACILITY NO: 04-00-43-00

1. REPORTING INSTALLATION: Langley Research Center
Hampton, Virginia
2. FACILITY NAME: 16-Foot Transonic Tunnel
3. LOCATION (if other than 1. above): Same as 1.



4. FUNCTIONAL NAME: Wind Tunnel, Transonic 16 ft.
5. TECHNOLOGICAL AREAS SUPPORTED: Force and pressure investigation
6. NARRATIVE DESCRIPTION OF FACILITY CAPABILITIES & FUNCTIONS:

Model mounting consists of wall, sting, and strut supports. The tunnel can be used for propulsion test with 90 percent hydrogen peroxide or compressed air.

6. NARRATIVE DESCRIPTION

Operating conditions are as follows:

Stagnation pressure	Atmospheric
Stagnation temperature, °R	510 to 650
Reynolds number per foot	1.2×10^6 to 3.7×10^6
Mach number	0.2 to 1.3
Dynamic pressure, lb/sq. ft.	58 to 900

Major Support Components or Equipment:

Langley Central Data Reduction Center and tie-ins.

Application - Aeronautics and Space

Category - Fluid Flow

7. POTENTIAL:

8. PLANS:

9. BLDG. NO.	<u>1146</u>	10. YR. BUILT:	<u>1961</u>	11. FAC. CAT. CODE:	<u>330-10</u>
12. INITIAL COST: \$	<u>1,422</u> K	13. NASA B.O.D.	<u>1961</u> **	14. STATUS CODE:	<u>Active</u>
15. ACCUM. COST: \$	<u>12,789</u> K	16. LIFE EXPECT.	<u>Indef.</u>	17. OWNER CODE:	<u>NASA</u>
18. OPER. CODE:	<u>NASA</u>	19. CONTRACTOR NAME	(if contr. oper.):		

** Completion of last major modification

20. OTHER SOURCES OF INFO: "Air-Flow and Power Characteristics of the Langley 16-Foot Transonic Tunnel with Slotted Test Section" NACA RM L52EO

21. COGNIZANT ORGANIZATIONAL COMPONENT: Full Scale Research Division

22. LOCAL OFFICE TO CONTACT FOR FURTHER INFO:

Chief, Research Models and Facilities Division (Code 56.000)
Phone: (Area Code 703) 722-7961, extension 4745